TE CONNECTIVITY® APPLICATION TOOLING PRODUCT LINE CARD
A COMPLETE LINE OF QUALITY TOOLING SOLUTIONS
PORTABLE WIRE PROCESSING

Standard Die Envelope (SDE)
SDE technology is a flexible and affordable approach to crimp tooling. With the SDE platform, a user has the ability to crimp hundreds of TE contacts without purchasing a unique tool for each crimp. It minimizes the need for owning multiple tools by combining two, three and sometimes four crimp nests into one die set that can be inserted easily into manual, battery or pneumatically-powered TE equipment. SDE tooling is ideal for R&D, networking applications, on-site maintenance and repair work.

32 - 10 AWG (.03 mm² - 5 mm²)

CERTI-CRIMP
The CERTI-CRIMP family consists of reliable, repeatable and certified crimp tooling to handle a variety of industry-mandated specifications. CERTI-CRIMP tools are available in both manual and battery-powered formats.

32 - 10 AWG (.03 mm² - 5 mm²)

Hydraulic Crimp
Our line of quality hydraulic tooling includes industry-standard HYP8 & HYP10 tool systems. The basic hydraulic tool system requires a pump, hose (multiple lengths are available with all configurations), crimp head, and shank or U-dies.

8 AWG - 1000 MCM (8 mm - 506 mm²)

Manual Power
- Adjustable ratchet control system
- Ergonomic designs
- Certified and non-certified options available
- Recommended for less than 60 crimps/hour

Battery Power
- Short charge times
- 3,400 - 24,000 lbs of crimp force
- Recommended for less than 90 crimps/hour

Insulation Displacement
- Interchangeable heads
- One-at-a-time and mass termination options available
- Available in manual and benchtop configurations

Pneumatic Power
- Lightweight design
- Hand or foot operated
- Rotating heads
- Recommended for less than 90 crimps/hour

Hydraulic Power
- Shank & U-dies
- 8,200 (HYP8) & 10,000 (HYP10) lbs of crimp force
- Requires a pump, hose and foot or hand control to operate

Specialized Tooling
- Customizable kits
- Terminal strip cutter
- 4-way indent tools
### APPLICATORS & SPARE TOOLING

#### OCEAN 2.0
- Mechanical & pneumatic feed
- 26 - 7 AWG (13 - 10 mm\(^2\))
- Atlantic & Pacific style ram configurations
- Excellent repeatability
- 30 & 40 mm stroke

#### Spare Tooling
- Precision ground, chrome plated
- Engineered for compliance to meet OEM specifications
- UL listed
- CSA certified

#### Splice
- 20 - 3 AWG (.5 - 25 mm\(^2\))
- 40 mm stroke
- Shut height: 135.78
- Fine adjustment
- For both pig-tail and thru-splice applications

#### Mini Loose Piece
- 26 - 7 AWG (.14 - 10 mm\(^2\))
- 40 mm stroke
- Shut height: 135.78 mm
- Fine adjustment
- Ready for ferrule crimps for Data Connectivity

#### Mid Size Wire
- 7 - 3 AWG (10 - 25 mm\(^2\))
- 40 mm stroke
- Shut height: 135.78 mm
- Fine adjustment
- Fits on presses that accept traditional applicators
- Strip & loose piece terminal loading

#### Large Wire
- 3 - 0 AWG (25 - 50 mm\(^2\))
- Fine adjustment
- 40 mm stroke
- Shut height: 154.78 mm
- Strip and loose piece terminal loading

#### High Voltage
- Mechanical & pneumatic feed
- 5 - 4Ø AWG (16 - 120 mm\(^2\))
- Atlantic & Pacific style ram configurations
- Excellent repeatability

#### Insertion/Extraction Tools
- Making terminal extractions as easy as 1, 2, 3.
SEMI-AUTOMATED WIRE PROCESSING

3K/5K/GII
- Capable of 3,000 or 5,000 lbs of crimp force
- Priced competitively
- 30 & 40 mm stroke
- Available with & without crimp quality monitor (CQM II)
- Defective crimp cut & stripping module versions available
- CE approved on select models

GII
- Capable of 5,000 lbs of crimp force
- Improved interior lighting compared to 3K/5K platform
- 40 mm stroke only
- Available with & without CQM II
- Quieter than 3K/5K models
- Recommended for customers who have tape-fed applications
- Split cycle is standard
- Defective crimp cut & stripping module versions available
- CE approved

GII+
- Capable of 10,000 lbs of crimp force
- 40 mm stroke only
- Available with & without CQM II
- Capable of processing strip & loose piece terminals
- CE approved on select models

HF-20T
- Capable of 40,000 lbs of crimp force
- Capable of processing wires up to 120 mm²
- CE approved

HV-20T
- Capable of 40,000 lbs of crimp force
- 44 mm stroke only
- Includes CQM II
- Capable of processing wires up to 120 mm²
- CE approved

HV-CP
- Multi-step stripping of multi-layered conductors in as fast as 30 seconds
- Self calibrating
- Processes 10 - 120 mm² cable
- Stores up to 1,500 unique profiles
- CE approved

Inverted Splice
- Capable of crimping two or more stranded or magnet wires with a combined CMA of 400 - 13,000
- Designed to handle pig-tail & splice terminals
- Available with & without CQM II
- CE approved
HEAT SHRINK MACHINES

RBK-X1
- Tubing diameter up to 19 mm
- Tubing length up to 70 mm long
- Stores hundreds of unique profiles
- Compatible with upstream ultrasonic welder
- CE approved on select models

Model 17
- Closed-loop temp and belt speed control
- Suitable for continuous operation
- Tubing diameter up to 19 mm
- Tubing length up to 90 mm
- CE approved

Model 19
- Tubing diameter up to 25 mm
- Tubing length up to 102 mm (178 mm with the help of the wide heating element tool)
- CE approved

Model 105
- Tubing diameter up to 76.2 mm
- Tubing length unlimited
- Stores hundreds of unique profiles
- Compatible with upstream ultrasonic welder
- CE approved on select models

CV-OBHAT
- Lightweight, portable hot air tool, used to install TE’s RAYCHEM ES-Cap stub splice sealing products
- CE approved

IR-1891
- Twin workstation heater for multiple installation of short length tubing products
- Multiple product fixtures supports increased process rates
- Tubing diameter up to 20 mm
- Tubing length up to 60 mm
- CE approved

AD-3050
- Fast determination of sealing integrity
- Multiple test fixtures
- CE approved on select models

Power of Automation
- Belt Drive: 500/hr
- Manual Machine: 120/hr
- Heat Gun: 60/hr
- 60/hr
# MAGNET WIRE EQUIPMENT

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### Arbor Press
- Ideal for repair, service and prototype work

### Inverted AMPLIVAR
- AMPLIVAR, Pigtail and Thru-splice termination for magnet wire & lead wire combinations

### MK I & II
- For MAG-MATE, SIAMESE & Leadlok terminal applications
- Single, dual, triple and quadruple insertion capabilities
- Optional insertion force monitoring
- Insertion module with or without electrical cabinet & touch panel options available
- CE approved

### Workstation
- Standardized and customized work stations to meet customer demands
- Designed to automatically insert terminals into cavities of coil bodies
- CE approved

### APT-5A & 5E
- Fast, efficient system for Amplivar applications with no need to strip magnet wire insulation
- Auto crimp height adjustment & CQM models available
- Infinite splice models available
- Connects up to 3 wires in 1 splice
- CE approved

### Power Splice
- Reliable pigtail splice termination of magnet wire and solid or stranded lead wires

### Thru-Splice
- Includes fine crimp height adjustment
- Full guarding with interlocks
- Total and batch counters
- Jog & split cycle operation
- CE approved
TE Connectivity offers a wide range of discrete pin insertion and servo driven connector seating machines that mass terminate compliant pin connectors. So there’s one that is perfectly suited for your product needs. And each model leverages the simple, field-proven, solder-free manufacturing offered by the entire TE product line.

**Pin Insertion Machines** *(All Pin Insertion machines are CE approved and have a PCB & carrier capacity of 420 x 360 mm)*

- **P100**
  - Manual to fully auto designs
  - PCB & connector stitching applications
  - Repeatability: ±0.02 mm
  - Bi-directional mode for carrier and PCB handling
  - Insertion rate: 1.5 cycles/s at 10 mm pitch
  - Capable of double insertion mode

- **P300**
  - Manual to fully auto designs
  - PCB applications
  - Repeatability: ±0.02 mm
  - Insertion rate: 3 cycles/s at 10 mm pitch
  - Capable of triple insertion mode

- **P360**
  - Fully auto designs
  - PCB & connector stitching applications
  - Repeatability: ±0.01 mm
  - Insertion rate: 5 cycles/s at 25 mm pitch
  - Capable of triple insertion mode
  - Bi-directional mode for carrier and PCB handling

- **P550**
  - Fully auto design
  - PCB & connector stitching applications
  - Repeatability: ±0.01 mm
  - Insertion rate up to 5 cycles/sec at 25 mm pitch
  - Capable of triple insertion mode
  - Bi-directional mode for carrier & PCB handling

**Conversion Kits**

All P-series machines can be supplied with modular insertion tools that allow the tooling to be quickly changed on the insertion head.

**Connector Seating Machines**

- **CBP-5T MK II**
  - Servo electric press
  - PCB capacity of 460 x 610 mm
  - 44 kN press force
  - CE approved

- **CSP MK II**
  - Shuttle system for product location under press ram
  - Housing capacity of 75 x 150 mm
  - Manual & pneumatic option
  - CE approved

- **CMP-10T MK II**
  - 107 kN press force
  - Board capacity of 610 x 915 mm
  - Wide range of insertion heads available
  - CE approved

- **CAP-6T**
  - Manual loading drawer for simple PCB loading & unloading
  - Board capacity of 760 x 910 mm
  - 53 kN of force

- **CAPI-6T**
  - Inline system (SMEMA compatible)
  - Board capacity of 760 x 910 mm
  - 53 kN of force

- **CMP-5T MK II**
  - 53 kN press force
  - Board capacity of 610 x 915 mm
  - Wide range of insertion heads available
  - CE approved

- **C360**
  - Fully automated loose piece press for forces up to 5kN
  - For connectors and various other applications
  - Repeatability: ±0.01 mm
  - Insertion Rate: 1 insertion / second
  - Bi-directional mode for carrier & PCB handling

TE APPLICATION TOOLING /// PRODUCT LINE CARD
Let’s Connect
Learn more about our comprehensive line of tooling solutions at tooling.te.com.

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TE APPLICATION TOOLING FIELD SERVICES
YOUR RESOURCE FOR EXPERT TECHNICAL SUPPORT

TE Application Tooling is supported by a responsive organization of service engineers located conveniently across the globe to provide timely response to customer needs.

In addition to installation, warranty and repair service, TE Field Engineers can help with selection of the most appropriate equipment for your requirements: training of maintenance and operation personnel, troubleshooting assistance; and spare parts. Service contracts to cover all your application equipment are also available.

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